

Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

STC-1

RRID:CVCL_J405

Type: Cell Line

Proper Citation

ATCC Cat# CRL-3254, RRID:CVCL_J405

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_J405

Proper Citation: ATCC Cat# CRL-3254, RRID:CVCL_J405

Description: Cell line STC-1 is a Cancer cell line with a species of origin Mus musculus (Mouse)

Sex: Sex unspecified

Disease: Neuroendocrine adenoma of the mouse intestinal tract

Defining Citation: [PMID:1654206](#), [PMID:2162628](#), [PMID:18708196](#), [PMID:22538498](#), [PMID:28870797](#), [PMID:29787051](#)

Category: Cancer cell line

Organism: Mus musculus (Mouse)

Name: STC-1

Cross References: BTO:BTO_0003584, ATCC:CRL-3254, Wikidata:Q54970558

ID: CVCL_J405

Vendor: ATCC

Catalog Number: CRL-3254

Record Creation Time: 20220427T221610+0000

Record Last Update: 20260726T000248+0000

Ratings and Alerts

No rating or validation information has been found for STC-1.

No alerts have been found for STC-1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 115 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

White AC, et al. (2025) The pyrethroid insecticide deltamethrin disrupts neuropeptide and monoamine signaling pathways in the gastrointestinal tract. *Toxicological sciences : an official journal of the Society of Toxicology*.

Sun J, et al. (2025) Organs-on-a-Chip Recapitulating the Gut-Islets Axis for Endocrine Hormone Secretion Regulator Evaluation. *Research (Washington, D.C.)*, 8, 0923.

Li P, et al. (2025) Dihydromyricetin Promotes Glucagon-Like Peptide-1 Secretion and Improves Insulin Resistance by Modulation of the Gut Microbiota-CDCA Pathway. *Molecular nutrition & food research*, 69(8), e202400491.

Jameson KG, et al. (2025) Select microbial metabolites in the small intestinal lumen regulates vagal activity via receptor-mediated signaling. *iScience*, 28(2), 111699.

Wang JX, et al. (2024) Lactobacillus reuteri-Enriched Eicosatrienoic Acid Regulates Glucose Homeostasis by Promoting GLP-1 Secretion to Protect Intestinal Barrier Integrity. *Journal of agricultural and food chemistry*.

Huang Y, et al. (2024) Mechano-regulation of GLP-1 production by Piezo1 in intestinal L cells. *eLife*, 13.

Cuffaro B, et al. (2023) Characterization of Two Parabacteroides distasonis Candidate Strains as New Live Biotherapeutics against Obesity. *Cells*, 12(9).

Lopez-Escalera S, et al. (2023) In Vitro Screening for Probiotic Properties of Lactobacillus and Bifidobacterium Strains in Assays Relevant for Non-Alcoholic Fatty Liver Disease Prevention. *Nutrients*, 15(10).

Haneishi Y, et al. (2023) Polyunsaturated fatty acids-rich dietary lipid prevents high fat diet-induced obesity in mice. *Scientific reports*, 13(1), 5556.

Erk?I?nç G, et al. (2023) The expression of stanniocalcin-1, estrogen receptor and progesterone receptor in endometrioid endometrial cancer. *Turkish journal of obstetrics and gynecology*, 20(1), 8.

Lunevicius R, et al. (2023) Multiple logistic regression model to predict bile leak associated with subtotal cholecystectomy. *Surgical endoscopy*, 1.

Odongo K, et al. (2023) Development of sandwich ELISAs for detecting glucagon-like peptide-1 secretion from intestinal L-cells and their application in STC-1 cells and mice. *Journal of clinical biochemistry and nutrition*, 72(1), 28.

Huh E, et al. (2023) *P. mirabilis*-derived pore-forming haemolysin, HpmA drives intestinal alpha-synuclein aggregation in a mouse model of neurodegeneration. *EBioMedicine*, 98, 104887.

Hurley MJ, et al. (2023) γ -Synuclein expression in response to bacterial ligands and metabolites in gut enteroendocrine cells: an in vitro proof of concept study. *Brain communications*, 5(6), fcad285.

Nonaka H, et al. (2022) Dietary Medium-Chain Triglyceride Decanoate Affects Glucose Homeostasis Through GPR84-Mediated GLP-1 Secretion in Mice. *Frontiers in nutrition*, 9, 848450.

Paulussen F, et al. (2022) The α 2-adrenergic receptor in the apical membrane of intestinal enterocytes senses sugars to stimulate glucose uptake from the gut. *Frontiers in cell and developmental biology*, 10, 1041930.

Amorim Neto DP, et al. (2022) Protocol for rapid obtention and fractionation of anaerobic bacterial conditioned media to study calcium signaling in enteroendocrine cells. *STAR protocols*, 3(3), 101486.

Amorim Neto DP, et al. (2022) *Akkermansia muciniphila* induces mitochondrial calcium overload and α -synuclein aggregation in an enteroendocrine cell line. *iScience*, 25(3), 103908.

Mooli RGR, et al. (2022) Intestinal HIF-2 α Regulates GLP-1 Secretion via Lipid Sensing in L-Cells. *Cellular and molecular gastroenterology and hepatology*, 13(4), 1057.

Heffernan S, et al. (2022) Blue Whiting (*Micromesistius poutassou*) Protein Hydrolysates Increase GLP-1 Secretion and Proglucagon Production in STC-1 Cells Whilst Maintaining Caco-2/HT29-MTX Co-Culture Integrity. *Marine drugs*, 20(2).